## **SEGA** SERVICE MANUAL

## GENESIS 32X(VA0,VA1) / MEGA DRIVE 32X



NO.	012
ISSUED	JUNE, 1995

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Sega Enterprises, Ltd.

#### BEFORE REFERRING TO THE SERVICE MANUAL.

Since the circuit of the Extension Unit used in the GENESIS 32X has been integrated on the main circuit board, an Extension Unit is not necessary for the GENESIS 32X(VAI)

This circuit is built into the MEGA DRIVE 32X from the first unit.

#### 1. SPECIFICATIONS

#### Ratings

Model	GENESIS 32X	MEGA DRIVE 32X						
Model	GENESIS 32X	PAL	PAL G/I					
Power reput	Input AC120 V, 60 Hz Output DC10 V, 850 mA	Input: AC230 V, 50 Hz Output: DC10 V, 850 mA	Input AC240 V, 50 Hz Output: DC9 V, 850 mA					
Power consumption	Approx. 4 W	Approx 4W	Approx. 4 W					
Operating environment	Temperature 5°C -35°C Humidity: 20%RH-80%RH	(so condensation)						
Dimensions	115(W) × 210(L) × 100(H)	mm						

Specifications			
CPU	Master	32bs RISC SH2 23 MHz 20MIPS	
CFO .	Stave	32bit RSSC SH2 23 MHz 20MIPS	
Memories	RAM	ZMbit (SDRAM)	
MEHOLES	VRAM	2Mbit	
Sound	PWM Sound Source (3	Stereo)	_
	VDP	SEGA custom LSI	_
	Display	TV	_
Display capability	Color	32,768 colors	
	Video Output	VIDEO RF RGB	
Slees	Cartridge slots		

#### 2. IDENTIFYING PARTS

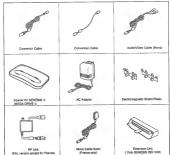
Front View



Rear View



#### 3. ACCESSORIES



#### 4. DISASSEMBLY

4-1. Top Case Removal (See Fig. 4-1)
1) Remove four screws 

and the top case.



#### 4-2. Sub Board Removal (See Fig. 4-2)

Remove ten screws attached the top shield case
 Remove two screws attached the 64-pin

connector

3) Remove two 40-pin flat cables on the sub board



Fig.4-2

#### 4-3. Main Board Removal (See Fig. 4-3, 4-4)

 Remove four sorews @ stracked the front case and near case on the bottom case and then their showted as arrow.

showed as arrow.

2) Remove two screws (D) attached the frost case and year case and main board.







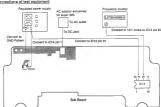
#### 5. ADJUSTMENT

Video Frequency Matching Adjustment

#### Test aquipment and tools for adjustment

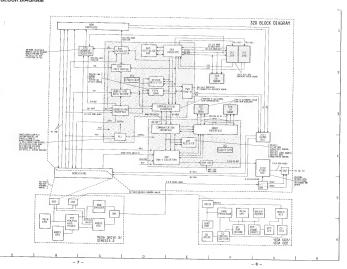
- Regulated power supply (SV DC)
   Freeward operate (capable of displaying 7 digits or more)
- 3. 10 Loscilloscope probe
- 4 Philips screwdriver
- 5 Non-metal adjustment draver 6. AC adaptor excusively for super 32X 7. One lead for GND and two leads for SV

#### Connections of test squipment



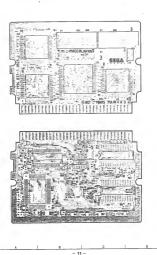
#### Adjustment procedure

- 1. Disconnect the super 32X from the Mega Drive
- Disconnect the super 32A from the snegat Drive.
   Remove the too case and too shield case from the super 32X.
- Remove the top case and top shield case from the super 3.D
   Plug the AC adaptor into an AC outlet and into the DC jack.
  - 4 Set the regulated power supply to 5V DC and connect it to IC14 pm 1. (The super 32X turns on.)
  - 5. Connect 5V DC to IC12 pin 31. (Set to the test mode.)
- $6\,$  Connect the frequency counter to IC12 pin 20 and adjust C72 so the frequency is 3.579545 MHz  $\pm$  10Hz.

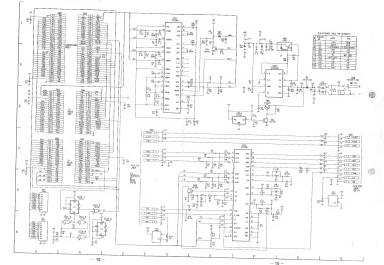


- 10 -

#### MEMO



	- 13 -	 - 14	H



- 18 -

#### 8. PARTS SPECIFICATIONS

IC1/2 CPU IC HD6417096F23 DFP Parts No : 315-0922

IC HD8417095F28 DFP Parts No. . 315-0922A

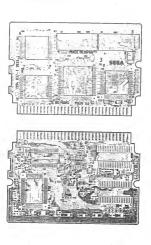
■ Top View



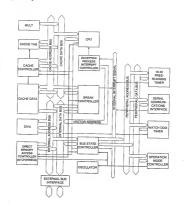
#### ■ Description

No.	ND	Pin Name	Function
. 1		DII	
2	no [	D12	Data bus
3		D13	
- 4	-	VCCI	Power supply (SV)
3	1/0	D14	Data bus
6		VS51	Power supply (DV)
- 7	1 .	D15	
5	J L	D16	
	10	D17	Data bus
. 10		Di8	
11	-	D19	
12	-	VCC2	Power supply (SV)
13	LO	D20	Data bas
14	_	V382	Power supply (DV)
15		D21	
16	10	D22	Data bus
17	L	D25	
18		VOC3	Power supply (3V)
_ 19	TO.	D24	Deta bus
20	- 1	V5S3	Power supply (OV)
21	J i	D25	
22	1/0	D26	Data bas
23		D27	
. 24		VCC4	Power supply (SV)
25	MO	D08	Data has
26	_	VSS4	Power supply (UV)
27		D29	1000
28	1/0	D30	Data bus
29	і Г	D31	
30		A0	
31	1/0	A1	Address bus
32		A2	-
33	-	V355	Power supply (SV)
34		A3	
3.5		A4	
36	No -	AS .	
37	00	A6	Address bus
38	-	A7	

No.	NO.	Pin Name	Futction
41	10	A9	Address bys
42	-	V\$\$4	Power supply (SV)
43		A10	11
44	1	ALL	7
45	1/0	A12	Address bus
_ 46	7	A13	
47		A14	
. 48	-	VCC6	Power supply (SV)
49	. 10	AIS	Address bus
50		VSS7	Power supp. y (OV)
51		A16	
52	I/O	A17	Address bus
_53	1	Al8	
34	-	VCC	Power supely (SV)
55	NO.	AI9	Address bus
56	-	VS58	Power supply (OV)
57		A20	
58	10	A21	Address has
59	1	A22	
60	-	Voca	Power supply (SV)
61	1/0	A23	Address hos
62	-	V359	Power supply (OV)
63		A24	11.11.00
64	I/O	A25	Address bus
65	1	A26	
66	D	DACKO	DMACO soksowiedge
67	-	VCC9	Power supply (SV)
68	D	DACKI	DMACI acknowledge
69	-	V3510	Power supply (OV)
70	1	DREOO	DMACO recuest
71		DREQU	DMAC1 request
72	Ď	130	Chip select 0
73	D	CSI	Chin relect 1
74	0	CSZ	Chip select 2
75	D	CSS	Chip select 3
16	10	188	Dos cycle start
77	10	RD/WE	Read write
73		VSSII	Power supply (OV)
79	D	EAS, CE	BAS for DRAMSDRAMCE for PSRAM
80	0	CAS. OE	CAS for SDRAMICE for PSRAM
81	D	CARDID DOLGER STOP	Pack memory most stand of our base of the Control
82	D	CASH DOME WES	Each memory most significant byte select signal Each memory 2nd byte select signal
83	D	CASCID DIRECT WAY	Each memory 3rd byte select signal
84		VCC10	Power supply (SV)
85	D	CASLL DOMLL, WED	Each memory least significant byte select menal
\$6	-	V5812	Power supply (0/r)
\$7	D	RD	Read miles
88	D	CKE	SDRAM elock southle control
89	Ť	WAIT	Henivare wait request.
90	D	BEN	Reserve
91	-	VSS13	Power supply (DV)
92		BACK REIS	But right permission in slave mode /Das right acknowledge in master me
93	D	BREO, BGR	Day of the printed con in stave more (Day night acknowledge in master my
94	D	WDTOVF	But right request in slave mode But right acknowledge in master mode. Watch dog timer quiput.
95	D	FIDE	Free-canoing diner output B
96		VCCII	Power supply (SV)
97	D	FTDA	Lawst anbito (2 n.)
91		VSS14	Fine-meeting france output A.
69	-i	PTI	Power supply (OV)
100		FIG	Fire-running timer input,
100		RXD	Fore-ranning timer clock input.
		TXD	Serial data input. Serial data output.
102			



No.	10	Pin Name	Function
104	-	VCC(PLL) 12	Power supply (5V) of built-in PLL
105		MD0	Operation mode pan
106	-	VSS (PLL) 15	Power supply (DV) of built-in PLL
107	-	MDI	Operation mode pin
106		CAPI	External capacitor connection per for PLL
109	0	CAP2	
110		MD2	Operation mode pio
111	0	DOWDEN	Cleek pusse acknowledge output
112	1 1	CKPREON	Clerk pears request input
113	-	VCC13	Power supply (SV)
114		NC	Not connected
115	-	VSS16	Power supply (DV)
116	0	N.C	Net entirectors
117	1	MD3	Operation mode pin
118	10	000	System clock input/output
119		MD4	Oseration mode pin
120	1	MDS	
121		V3S17	Power supply (DV)
122	1	833	Ract
123	-	VCC34	Power supply (SV)
124	0	VECE	Insurrage vector feach cycle
125	1	NVI	Non-exaltable interrupt request
136		IRL3	
127		IRL2	Esternal internet factor input
128		IRLI	Casara inempi scor sipol
129	1	181.0	
130		200	Deta bas
130	1/0	Dt	Des es
132	-	VCC15	Power supply (SV)
133	NO.	D2	Data bes
134	-	VSS18	Power supply (DV)
135		D3	
136	I vo	D4	Dep les
137	10	DS	DESCRIPTION OF THE PROPERTY OF
138	1	D6	
139	-	VCC16	Power supply (SV)
140	10	D7	Deta has
141	-	V\$\$19	Power sapply (TV)
142		D8	
143	10	D9	Deta but
166		Dio	



#### IC3 2Mbit SDRAM

IC UPD4502161G5-A12 TSOP Parts No.: 315-0910-12

#### ■ Top View



#### ■ Description

No	1/0	Pin Name	Function
35	1	CLK	CLK in the master clock input pin. The other inputs signals are referenced at CLK many edge.
18	1	ਫ	Si low start the command impar cycle. When Si is high, all super are not reformand. But even if Si is high, internal operations are back active or burst are not changed.
15		WE	EASTAS WE have the same names with conventional DRAM. But there are
16	1	CAS	have deferred deficitions with conventional once. All of these pers only define convenant crots definition. For detail information see command table
17	1	RAS	command cycle definition. For detail information see command (401)
21		A0	Row address AND AND AND is determined by AD-AS irray signal level at the
22	1	Al	rising edge CLK negral at the bank active command eyele (state of AX7 is not
23	1	A2	applicable) Column address (AYD-AY7) is determined by AD-A7 story signal level at a read-
34	1	A3	write command cycle. The column address will be used as the burst access start address.
27	1	A4	AS deline products mode,
28	1	A5	Practarge command cycle     All = Low: Both bask percharged
29	1	A6	AS = High: One bank preclampel (depends on state of A9)  — Read/write command cryle:
30	1	A7	AS = High: Presharge cycle is started automatically following the end of data recorder in heret mode
20	1	AS.	tipologic di besti tibodi.
19	1	A9	A9 is basit solect signal (BS). In occurrent eyele, A9-low solect bank A and A9-Eigh solect bank B.
34	1	OKS	CKE determine sent CLK is valid or sot. If CKE is high not CLK miss edge to valid. But if CKE is low, not CLK is servald. If CLK missing edge is invalid. It is consistent and post in securities and processing edge is result.  JFD-SCEIGE done not in hunt mode and CKE is regard, JFD-SCEIGE center power down mode.  Design govern down mode CKE must kmp leve level.
36		DQMU	DQMEJ commit Upper byte and DQML commits Lower byte input/subpit buffen. In mad mode, DQMEJ, DQML commit output buffer inneclation like conventional OE. If DQMEJ DQML in High, output buffers become the tip impedance. If DQM DQML as Low, output buffen become low impedance. And when device in with
14	,	DQML	mode, DQMU, DQML control word mask. If DQMU, DQML is High input data out written to memory cell. If DQMU, DQML is Low input data in written to memory cell.

No.	WO	Pin Name	Function						
2		DQ0							
3	1	DQt							
5	1	DQ2	7						
6	7	DQS	7						
8	1	DQ4	1						
9	1	DQs	7						
11		DQ6							
12		DQ7							
39	10	DQs	I/O pure are the secte to conventional DRAM.						
40		DQ9							
42	1	DQto							
43	1	DQ11							
45		DQ12							
45	1 (	DQ13							
48		DQ14							
49		DQtS							
4									
7	1								
49									
25	- 1	Voc	Power supply of internal circuits.						
48									
48									
4									
40									
25									
49	- 1	V <sub>SS</sub>	Power supply of seemal circuits.						
47									
30									
31, 32	-	OND	Ground pieza						



IC CUSTOM CHIP SCA MARS UP Parts No.: 315-5818A

No	i vo	Pin Name	No.	10	Pin Name	No.	10	Pin Name	No.	10	Pin Nam
1	-	VDO	45	-	G/O	200	-	VDD	133	-	CIND
2	0	CH0	- 65	-	CND	90	10	VD6	174		GND
3	0	CHI	47	I	SHAIO	91	100	VD6	135	1O	AD0
4	0	OVAI9	48	1	SHAII	92	100	VDI	136	10	ADI
5	0	GVA20	49	1	SHA12	93	100	VD9	137	10	AD2
6	1	OVA21	50	1	SHAI3	94	100	VDS	134	10	AD3
7	1	CART	51		SHA14	95	1KD	V02	139	1,0	AD4
8	1/0	KILL	52	1	SHAI5	96	10	VD10	340	1/0	AD5
9	to	SHD15	53	1.1	SEA16	97	1/O	Vbt	141	10	AD6
10	NO	SHO14	54		\$8A17	95	I/O	VD3	142	10	AD7
11	1/O	SHD13	55	10	WAIT	99	1/0	VDII	143	10	ADS
12	1/D	SHD12	56		RD	100	1	MRES	344	10	AD9
13	(A)	SHDII	57	1	DOMLL	101	1	VA19	145	10	ADIO
16	(A)	SHDto	58		DOMEST	102		VA20	146	10	A011
15	I/O	SHD9	59		ROXWR	103		VA21	347	10	AD12
16	1/O	SHDE	60		BS	104		VA22	345.	100	AD13
17	1/0	SHD7	61	1	CZ2	105		VA23	149	10	ADI4
18	1/0	SMD6	62	11	ČS1	106		CAS0	150	10	ADI5
19	1/0	SHDS	63	1 1	CSGS	107		CED	151	0	SEL
20	10	SHD4	64	1.7	CSIZM	108	1.1	AS	18	1	CHPLL
21	1/0	SHD3	65	0	OREQL	109	0	OTACK	153	1	BURNI
22	-	V00	66	0	OREQ0	110	-	VDO	154	0	OCE0
23	-	GND	67		VAIS	111	-	QND	155	0	OASEL
24	1/0	SHD2	65	1.	VA17	112	1.1	VCLK	156	0	DCAS2
25	7/0	SHD1	69	1.1	VA16	113		CAS2	157	0	DCA50
26	10	SHD0	70	1.1	VAIS	114	10	VD15	158	0	OLWR
27	0_	SIPLI	71	1	VA14	115	10	VD14	159	1/0	RDO
25	0	SIRL2	72	T.	VAI3	116	10	VD13	160	TO.	RDI
29	0	SIRL3	73	1	VA12	117	10	VD12	161	10	RD2
30	0	MRLI	74	1	VAB	115	1	ASEL.	162	1/0	RD3
31	0	MIRL2	75	1	VAIO	229	11	VRES	163	IVO	RD4
32	0	MRG	76	I	VA9	120	1	LWR	164	1/0	RD5
33	0	CKID	- 77	11	VAS	121	1	UWR	165	MO	RD6
34	10	SHRES	78	1	VAZ	122	11	HNT	166	1/0	RD7
35	1	SHAI	79	1	VA6	123	1	VINT	167	10	RD8
36	1	SHA2	80	11	VAS	124	1	VACK	168	1/0	RD9
37	1	SHA3	51		VA4	125	0	ACCS	169	10	RD10
35	1	SHA4	12	1.1	VA3	126	0	Dilk	170	10	RD11
39	1	SEAS	83		VA2	127	0	EW.	171	1/0	RD12
40	1	SKA6	34		VAI	128	0	CUWX	172	MO	RD13
4]	1	SHA7	85	1/0	VD7	129	-	AVDD	173	1/0	RD14
42	I	SRAS	36	10	VD0	150	13	AGND_	174	NO.	RD15
							1.0	C25	125	-	GND

#### IC5 ADDRESS SELECTOR

IC CUSTOM CHIP MARS ADSIE Parts No. , 315-5805

#### ■ Top View



No.	LO.	Pin Name	No.	NO	Pin Name	No.	100	Pin Name	No.	10	Pin Name
1	0	RA4	21	1	VA9	41	1	SHA2	61	0	RA22
2	0	RA3	22	1	VA8	42	- 1	SHA3	62	0	RA21
3	0	RA2	23	1	VA7	43	1	SHAK	63	0	RA20
4	0	RA1	24	1	VA6	44	1	SHAS	64	0	RA19
5	-	GND	25	1	VA5	45	1	SHA6	65	0	RA15
6	1	VA23	26	1	VA4	46	. 1	SHA7	66	0	RA17
7	1	VA22	27	1	VA3	47	- 1	SHAB	67	0	RA16
8	1	OVA21	28	1	VA2	45	1	SHA9	64	0	RAIS
9	1	OVA20	29	1	VAI	40	1	SHAIO	69	0	RA14
10	1	GVAI9	30	1	SHA21	50	1	SHAII	70	0	RA13
11	I	VA18	31	1	\$EA20	51	1	SHA12	71	-	GND
12	-	CND	32	1	CX30	52	1	SHA13	72	-	VDD
13	1	VA17	33	-	CND	53	-	GND	73	0	RA12
14	1	VA16	34	-	VDD	54	1	SHA14	74	0	RA11
15	1	VAIS	35	1	BRBQ	55	1	SHA15	75	0	RAID
16	1	VAI4	36	1	IBACK	56		SHA16	76	0	RA9
17	1	VA13	37	0	OBACK	57	1	SHA17	27	- 0	RAS
18	1	VA12	38	1	SHA19	52	1	SEL	78	0	RA7
19	1	VAI1	39	1	SHAIR	59	-	CMD	79	0	RA6
20	1	VAIO	40	1	SHAI	60	0	RA23	80	0	RA5

IC6 8bit 20MHz D/A CONVERTER IC CUSTOM CHIP G/A MARS VDPNEC Pars No : 3(5-578)

IC CUSTOM CHIP SCA MARS VEP Parts No.: 315-5781A

■ Top View

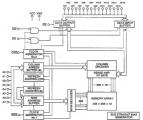


40.	NO	Pin Name	No.	10	Pin Name	No.	10	Pin Name	No	1/0	Pin Name
_	-	VDD	37	-	CND	73	-	VDD	109	-	GND
2	-	VDD	35	-	GND	74	-	VDD	110	1 -	GND
3	-	VDD	39	10	ADIS .	75	-	VDD	101	1	DGND
1	100	000	40	1/0	AD14	76	-	N.C	112	2 -	NC
2	1O	001	41	10	AD13	77	0	EA7	113	1	AGND1
6	LO.	002	42	10	AD12	75	0	EA6	114		N.C.
2	10	003	-63	150	AD11	79	0	EAS	115	1	AVDD1
5	DO	CD4	44	70	AD10	10	0	E44	116	-	N.C
0	1/0	005	45	110	AD9	81	0	EA3	117	0	108
10	TIO	DD6	46	100	AD8	12	0	EA2	115		N.C
1	I/O	007	47	10	AD7	83	0	EA1	119	1	AVDD2
12.	1/0	CDR	45	10	AD6	84	0	EAO	120	-	N.C
13	1/0	009	49	10	AD5	85	0	EURE	121	T	AGNOS
4	1/0	CDIO	- 50	10	AD4	56	0	ELWE	122	-	N.C
15	MO	CDII	51	10	AD3	87	0	EXE	123	D	100
16	1/0	QD12	52	10	AD2	55	0	BCAS	124	-	NC
7	I VO	0013	53	10	AD1	89	0	ERAS	125	1	IREF
	10	CD14	54		ADO	90	10	ED15	126	-	N.C
9	W	ODIS	55	1	78513	91	In	ED14	127	1	VREF
10	0	ORAS	55	T	C23	92	100	ED13 -	128	-	N.C
21	0	DCAS	57		MODE2	93	100	ED12	129	1	COMP
22	0	OOE	58	1.1	E.m.	94	1/0	EDt1	130	-	N.C
23	0	CLWE	59	1	Disk	95	100	ED10	131	0	IGB
24	0	OLWE	60	0	VACK	96	100	ED9	132	-	N.C.
25	0	CAD	- 61		ACCS	977	10	ED8	133		AVDD3
26	0	DAI	62	0	BINT	96	10	EED?	134	-	N.C
27	0	QA2	63	0	Vpt	99	10	ED6	135		AGNDS
28	0	OA3	64	1.7	MRES	100	10	EDS	136	-	N/C
29	0	QA4	65	1	HSYNC I	300	10	ED4	137	1.	DVDD
30	0	QA5	66	1	VSYNC	102	10	ED3	135	-	N.C
31	0	0.46	67	1.1	YS	103	10	ED2	139	1 1	TESTI
32	0	0A7	68	1.1	NTSC	104	10	EDi	140	1	TEST2
33	T i	MODEL	69	1 1	EDCLK	105	10	ED0	[4]	i D	BFP
34	-	VDD	70	1-	N.C	106	1-	VDD	142	0	OYS
35	-	VDD	71	1 -	CND	107	Τ-	VDD	143	-	GND
36	+=	VDD	72	-	CND	)06	1 -	VDD	144	-	GND





■ Description



#### IC9 INVERTER Parts: No. : 314-0623

JC 74ACO4 SOP 300MLL HITACHI ■ Top View



IC 74ACO4 SOP 300MLL TOSHIBA Parts No.: 314-0694 III To do Table

-	Truth Table	
	A	Y
	L	н
	н	L

#### IC10 3PIN REGULATOR

1: GND 2: IN 3: OUT

IC RHSRL33A Parts No., 313-5320



# Block Diagram

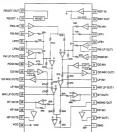


IC11 SOUND NETWORK/HEADPHONE AMP. IC CUSTOM OF BASISSES SOP ROHM Parts No.: 315-5684

Top View



Pin Description and Block Diagram

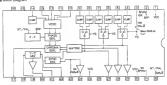


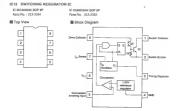
# IC BA7227FS K Pars No - 315-5788 P

IC BA7297FBA Parts No. : 315-5788A

■ Block Diagram

IC12 VIDEO MIX







Top View

Front View 1: VCC 2 OUT 3 OND

### III Block Diagram



IC15 IC 74HC74 SOP 225MIL

Parts No : 314-0647 ■ Top View

#### 18<sub>0</sub> [3 10E 1CP 2 15.3 1年 GND T

#### Logic Symbol Diagram



#### Pin Description

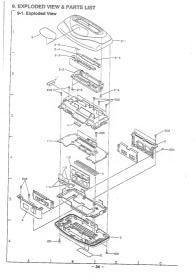
No.	10	Pin Name	Function
1, 13	1	1Kg, 2Kg	A synchronous reset direct inputs (active "Low").
2, 12	1	1D. 2D	Data Impets.
3, 11	1	1CP, 2CP	Clock inputs ("Low" to "High", triggered by edge)
4, 10	1	15, 25,	A synchronous set direct inputs (active "Lov").
5, 9	0	10, 20	True flip-flop outputs.
6,8	0	10,20	Complement flip-flap outputs.
7	-	GND	CND(0V)
14	-	Vcc	Positive (+) supply valtage

#### IC16

IC 74LSDD SDP 225MIL Parts No.: 314-0646

#### ■ Top View





Ref No.	Parts So.	Gescription		Circuit	Parts No	Secoreption	
,	837-11294-01	IC 80 WARS VAL PIL	(8)	-	I. Main Circu	ilt Boerd	
1	837-1292-01 837-11533	IC BO MAPS VAT PNL IC BO MAPS VAD HTSC IC BO MAPS VAT HTSC IC BO MAPS VAT ASTA HTSC	SENE	ICI ICI	375-0522 375-05234 375-0566	10 H06417956F23 GFP 10 H06417956F25 GFP 10 H06417966F29 DFP	_
1+1 1+1 1-1 1-2	837-11293-01 837-10925 837-11534 837-10928-01	DE DO MARSE VAL MATHE TO TO MARSE VALO MATHE TO SO MARSE VALO MATHE JPM/VISTIA TO SO MARSE VALO METER SPECIAL TO SO MARSE VALO METER SUB	(3.40 (3.00 (3.00 (3.00 (3.00 (3.00 (3.00) (	500	315-0602 315-0602 315-0608	IC IIDB417095F23 DFP IC IID6417095F28 DFP IC IID6417095BF28 DFP	
1-3 1-4	837-10926 900-6413 270-5692	IT SO WARE YAS MISC SUB FIC ASP L-TOWN PERITE CORE SPERMOSSETICSON	(2.4)	103 103	315-0910-12 315-1013	IC 070/50216105-A12 190P IC 070/50216105-V0P1-WARS	150P
2 22 22	610-5714 610-5765 610-5860	ASSY TOP CASE WAS JPK ASSY TOP CASE WAS USA ASSY TOP CASE WAS EXPORT	55	104 104	315-5818 315-5818A	IC DISTIN CHIP S/A WAS 1/ IC DISTIN CHIP SCA WAS 1/	F
2-1	253-6902	TOD CASE MASS	81	ICS	315-5835	HE DESTEN OHIP NATS ASSE	
2-1	253-6902-02 253-6902-01	TOP CASE MARS USA TOP CASE MARS EXPORT		ICE	315-5781 315-5781A	TO CUSTOM CHIP GAA WARS TO TO CUSTOM CHIP SCA WARS TO	è
2-2	253-5906	COVER MASS		IE.	315-0745-80 315-0961-80	IC TEST166481-80 SOJ IC LESE/86441-80 SOJ	
2-3.		DOOR MARS FROMT DOOR WAS EXPORT	[1] [2-3]	101	315-6982-80	IT 1232166444-80 SOP IE 125118648J-60 SOJ	
2-4 2-5 2-6	253-6929 125-5128 029-000034	BACK DOOR WAS EXPORT SPRING WARS B-TITE SCR PK 3AS	(2,3)	103 103 103	315-0745-00 315-0961-00 315-0962-00	EC 1031195883-60 SOU EC L032195449-80 SOU EC L032195449-80 SOP	
3	253-6933	BOTTOM CASE MARS		109	314-0184	IC TAXON SOF 300WIL	
4	610-5807 753-5866	ASSY FRONT CASE WARS FRONT CASE WARS	(1,2,2)	1010	313-5321	IC RIGRESIA	
4-2	250-5410	UNDER PLATE WAS		(E)	153-6119-61	DAT THAT CHIP 4THE 10V DAT THAT CHIP 4THE 10V	
5-2	510-5108 253-6985 250-5412	ASSY REAR CASE WAS TEAR CASE WAS UNDER PLATE WAS		CE2 CE2	153-0119 153-0119-01	CAP TAST CHIP STUF 10V CAP TAST CHIP STUF 10V	
6	253-0589	SIP COIGN MO2 EXPORT		OI .	229-5075 229-5076-01	FFC CHI 40° SOP FFC CHI 40° SOP FFC CHI 40° SOP	SW.
9	673-5338 673-5339	LAREL NO 32X LOGS ASIA LAREL NO 32X LOGS WILL	123	CHE	289-5079-02		<w< td=""></w<>
10	670-5864 670-5341 670-5341-01	LARREL PROTOKTION WARE ACTA FO LARREL TROTCATION WARE BEA LARREL TROTCATION (EN 22X USA		96 96 90 90	209-5075 209-5075-00 209-5076-00	FFC CNN 4DP SCP FFC CNN 4DP SCP FFC CNN 4DP SCP	(II)
10	570-5341-01 x 670-5342	LASEL INDICATION 32% 85A 01A LASEL INDICATION WAYS 32% MED		REI RE2 FEG	271-0092 475-1000-J-16 271-0075	BEADS HEOLOTER OF BUTSCORD BES ONLY ID ONLY 1/159 BEADS HOUGHER OF BUTSCORES	
11	601-7738	10° SHELD SPACER MAS		FE.	275-1000-J-16 271-0092	MES CHIP DOWN 1/76M MEALS INDUCTOR OF BICISORIS	
281 282 203 284	025-080025-08 025-000634 925-089047 025-089345-05	8-TITE SCR PH BLK 3810 8-TITE SCR PH 303 6-TITE SCR PH 303 8-TITE SCR PH BLK 285		U U U U	180-5137-01 180-5137-02 180-5137-03 180-5137	P. COSIL, DHIP 1000H ELJENT P. COSIL DHIP 1000H LENG2251 P. COSIL DP 1000H NL322522-1 CHIP INDUCTOR 1000H 12X	01 KF 101K 04J CO
				2222	180-5127-61 180-5137-62 180-5137-60 180-5137	P. COIL CHIP 1300# ELFAT P. COIL CHIP 1300# LBG2251 P. COIL OF 1300# NL322522-1 CHIP HEBECTSR 1000H ICN	OURE DOLL COL
				76G 76G 76G	477-0175 477-0175-01 477-0175-02	5-PX CP 4+10KD9K 1/RP 5X 5-PX CP 4+10KD9K 1/RP 5X 5-PX CP 4+10KD9K 1/RP 5X	or or
				26 26 26	477-0175 477-0175-01 477-0175-02	8-PE CP 4+1000H 1/2H 5S 8-PE CP 4+1000H 1/2H 5S 8-PE CP 4+1000H 1/2H 5S	8
				10.6 10.6 10.6	477-0175 477-0175-01 477-0175-02	5-PK CP 4+1000W 1/2H 5K 5-PK CP 4+1000W 1/2H 5K 6-PK CP 4+1000W 1/2H 5K	(N
				NE NE NE	477-0175 477-0175-01 477-0175-02	8-75 CP 4x100098 1/89 55 8-95 CP 4x100098 1/89 55 8-95 CP 4x100098 1/89 55	CN CN
				rs.	NOT USED	NOT SSES	

Mc.	Parts No	Concription	Circus Ro.	Perts No.	Description
R2 R3 R4 R5	475-1103-J-16 475-1302-J-16 MET USEO 475-1302-J-16	RES CRIP 10X0 or 1/10X SE RES CRIP 300 or 1/10X SE RES CRIP 300 or 1/10X SE RES CRIP 300 or 1/10X SE	100 to 10	851-0614-01 151-0615 151-0615-01	DIP DER OF 4 THE BACKGRATES CVA. DAP DER OF 3.30F 16V 2F321ENEC DAP DER OF 3.30F 16V 2521ENDO CAN
RE 107 88	476-1181-3-16 476-1133-6-16	NES CHIP 180 ON 1/10F SX NES CHIP 1340M 1/16F 2S	C25	151-0405 151-0405	CAP CEN CP O THE TOV 2516CS CAP CEN CP O THE TOV 2516CS
89 861 862	476-1272-6-16 476-1162-6-16 476-1822-3-16 476-1202-3-16	RS CHIP 13/00W 1/198 25 RS CHIP 2 7/00W 1/198 25 RS CHIP 1 8/00W 1/198 25 RS CHIP 8 2/00W 1/198 25	C00 C00 C00 C00	151-0614 151-0614-01 151-0615 151-0615-01	OF CER OF 4 TOF 10V 2F3216 OF CER OF 4 TOF BHIGHSF4F22 OWI OFF CER OF 3 3UF 10V 2F3216NEC OFF CER OF 3, 3UF 16V 2Z216T0K1 OWI
REZ PEX RES RES	HOT BSED HOT USED HOT USED 479-0472	RES CHIP 200H 1/10H SK HIT ISEB HIT ISEB HIT ISEB HIT ISEB RES A 700H 1/8H SK	E8 C83	151-0455 151-0405 151-0405	CAP CER CP 0. 10F 16V 2F1608 CAP CER CP 0. 10F 16V 2F1608 CAP CER CP 0. 10F 16V 2F1608
asmas	151-0405 151-0613 HOF USED HET USED NET ESED	CAP CES CP 0 TUF THY 2518/28 CAP CES CP CEPF 25Y DITISCS NCT 1550 NCT 1550	2000	151-0614 151-0614-01 151-0615 151-0615-01	CAP CER CP 4. TUF 10V 2F3216 CAP CER CP 4. TUF 500316F4772 (CXX): CAP CER CP 3. 30F 16V 2F3216065 CAP CER CP 3. 30F 16V 2Z2187061 (CXX):
CE .	151-0514	ON GIR OF A TUF 10V 200216	CSE	151-045 151-0455	CAP CER CP 0.18F 16V 2F1606 CAP CER CP 0 18F 16V 2F1606
05 05 05	151-0514-01 151-0615 151-0615-01	OP CER OF 8.76F BH318F4752 (NO.) OP CER OF 8.30F 10V 2F3216861 OP CER OF 8.30F 10V 2321610K1 (NO.)	8888	151-0614 151-0614-01 151-0615 151-6615-m	DAP CHR CP 4. TUF 11W 2F3216 DAP CHR CP 4. TUF SHICKSEF4T52 (0A1) DAP CHR CP 1. TUF 16V 2F32716162 DAP CHR CP 1. TUF 16V 2F327161021 (0A1)
57	151-0435	CAP CER CP CL TUFF TEV 291806		151-6615-01 151-6485	
CS CS CS	151-0514 151-0514-01 151-0615 151-0615-61	OF CIR OF 4 THE DW STAZES OF CER OF 4 THE BUSINESSES OF CER OF 2 3MF TOV STAZESHED OF CER OF 2 3MF TOV STAZESHED	28 28 28 28 28 28 28 28 28 28 28 28 28 2	151-5425 151-5425 151-0425 151-0425	CAP CER CP 0. 16F 16V 2F1606 CAP CER CP 0. 16F 16V 2F1608 CAP CER CP 0. 10F 16V 2F1608
CIS CIS	151-0435 151-0435 151-0612	CAP CEN CP C. TUFF TRY 2F1805 CAP CEN CP C. TUFF TSY 2F1805 CAP CEN CP 470FF SOV 01808	CEE	151-0406 151-0405	CAP CUR CP
C12 C12 C12 C12	151-0614 151-0514-01 151-0515 151-0615-01	CAP CEN CP A THE TON 2F1218 CAP CEN CP A THE BRAZINEASTS2 CHAID CAP CEN CP 3. 36F 16V 2F12150455 CAP CEN CP 3. 36F 16V 2F2216T001 CNAID	06 06 08 08	151-0514 151-0514-01 151-0515 151-0515-01	CAP CEN DP 4 7UF DNC)CF4752 (XX1) CAP CEN DP 3 30F 10V 2F221ENEC CAP CEN DP 3 30F 10V 2F221ENEC CAP CEN DP 3 30F 10V 2F221ENEC
E13 E14	151-0405 151-0612	CAP CER CF 0. THE 18V 2F1806 CAP CER CF 470PF SDV CH1030	CAS CAS CAS CAS	151-0614 151-0614-01 151-0615 151-0615-01	DAP DER OF A THE TOW 2F321S DAP DER OF A THE BHISHMATEZ (WIL) CAP DER OF 2 THE 18Y 2F321SARD DAP DER OF 2 THE TRY 2F321SARD DAP DER OF 2 THE TRY 2F321SARD
115	151-0614 151-0614-01 151-0615 151-0615-01	CAP CER DF & THE TON TETELS CAP CER DF & THE BACKWENTS CARD CAP CER DF 1 THE EV ZFSTMERT CAP CER DF 2 THE TETEL CARD	cer	151-6455 151-6405	CAP CER CP 2. 30P 16V 23216TOK (CW1) CAP CER CP 0. 1UF 16V 2F1606 CAP CEI CP 0. 1UF 16V 2F1606
16	151-0405	CAP CEN CF OLTUF 18V 2F16GS	di i	151-0514 151-0614-01	CAP COS CP 4.7UF 16V 2F3216
17	151-0614 151-0614-01 151-0615	CAP CER CP 4.70F 10V 2F3216 CAP CER CP 4.70F IBM218F44752 CHIZ) CAP CER CP 3.30F 10V 2F3216MEC	CSD	151-0615 151-0615-01	CAP CER CP 4, TUF 18V 27-3216 CAP CER CP 4, TUF BAC3185-6732 (WAT) CAP CER CP 3, 3UF 18V 27-321-6805 CAP CER CP 3, 3UF 18V 27-321-6705 (WAT)
38	151-0405	CAP CER CP 1.36F 16V 22216TBK1 GNID CAP CER CP 0.16F 16V 271698 CAP CER CP 0.16F 16V 271698	8	151-0614-01 151-0615-01 151-0615-01	CAP CER 0" 4 76F 10W 2F3216 CAP CER 0P 4 76F 886316F4752 (MAI) CAP CER 0P 3 36F 10W 2F3216HEZ CAP CER 0P 3 36F 16W 25216T0KI (MAI)
20	F1 4014		052	NOT USED	NET SEED
20	51-0615-01 51-0615 51-0615-01	CAP CER CP 4.76F BRG318F4752 CNUD CAP CER CP 1.38F 16V 2F3216860 CAP CER CP 1.38F 16V 2Z216TOX1 CNUD		151-0620 151-0253 151-0629	CAP CER OF 100FF SOV CHT805 CVAD- CAP CER AX 100FF SOV CX CVAD- CAP CER AXIAL 120FF SOV RK CVAD-
22	\$1-0405 \$1-6405	CAP CER CP E. TEF 16V 271606 CAP CER CP E. TEF 16V 271606	C96	151-0251 151-0253	CAP CER AX ATTY SOV CAP CER AX 100PT SOV
23		DIP CER CP & THE TON 2F7216 DIP CER CP & TIF BRISHERING (NO.) DIP CER CP 3. THE TON 2F721866C DIP CER CP 3. THE TON 2F72186C	88	151-031 151-033	CAP CER AX ATHY SOV CAP CER AX 100PF SOV (MAIL)
	51-0613 51-0620	CAP CER CF GRFF 29V CHISCO CAP CER CF 120FF 25V DRISED CHICD CAP CER CF 120FF 25V DRISED CHICD			
77 1	51-0614	CAP COIL CP & TISF 10V 2F3216			

Circuit No	Perts No.	Description	Coreciv No.	Farts No.	Geograption	
9-3-2	. Sub Circu	it Board	LE.	180-5157		1
1011	315-9584 315-9788	IC CUSTOM OF EMB188FS SIDP IC 84722FFS	g	180-5141 180-5141-01 180-5148	CHOKE COIL 3000H CHOKE COIL 3300H LHL1313331K CHOKE COIL 3300H	
1012	203-5788A 203-5744	IC BX7227F5A IC MC340B3A SBP BP	HF1 HF2	271-9007 271-9007	BKI FILTER STX222MB BKI FILTER STX222MB	
0013 1014	313-5395 313-5399	IC INSMOSAN SOP BP	5a1 6x1	477-0170 477-0170-02	8-P1. CP S+1000HM 1/19K SX 1/C 8-P1. CP S+1000HM 1/19K SX 1/C	
1015 1016	21.4-0647 21.4-0646	IC PST993K 3P 01P IC TANCTA SUP 22SAIL IC TALSOO SUP 22SAIL	RIC RIC	67-0170 677-0170-02	8-Pt CP 84106098 1/188 SX N/C 8-Pt CP 84106098 1/168 SX N/C	
15 11	451-5170 451-0149-01	0100E 198139-1007-62 ARIAL 0100E 192473 RADIAL	791 192	407-5126 407-5126	#\$TR 29C1623 LS T D61P #\$TR 29C1623 LS T D61P #\$TR 29C1623 LS T D61P	
083 084 685 086	150-0023 150-0023 150-0023 150-0052	0100E 193473 RADIAL  CAP E 100F 18W U-TYPE 20%  CAP E 100F 18W U-TYPE 20%  CAP E 100F 18W U-TYPE 20%  CAP E 20T 10W U-TYPE  CAP E 47VF 10W U-TYPE	783 784 785	482-5126 482-5126 283-5321	SSTR 2SC1623 LS , 7 DNIP	
CES CES	150-0082	CAP E 470F 10V 6-119E	E E	230-5187 230-5191	3TAL 3,519545H-C 20PPN 3TAL 4,43351875H-C 20PPN	(A
0E9 0E10 0E11 0E12	150-0062 150-0062 150-0159	CAP E ATUF 10V B-TYPE CAP E ATUF 10V B-TYPE CAP E 1UF SIV L-TYPE 20% CAP E 2200F 10R D-TYPE	901 R02 R03 854 R05	676-1750-3-16 476-1750-3-16 471-1822-3-16 676-1302-3-16 476-1822-3-16	RES CHIP TS ONE 1/16W SS RES CHIP TS ONE 1/16W SS RES CHIP 8. 20048 1/16W SS RES CHIP 9. 20048 1/16W SS RES CHIP 8. 20048 1/16W SS	
DE13 DE14 DE15 DE16 DE17	150-0009 150-0047 150-0062 150-0159 150-0484	CAP E 1UF 50V U-TYPE 20N CAP E 100UF 10V U-TYPE CAP E 47UF 10V U-TYPE CAP E 220UF 16V U-TYPE CAP E 470UF 10V U-TYPE	R15 817 R18 R19 R20	675-1302-3-16 675-1822-3-16 675-1822-3-16 675-1822-3-16 675-1822-3-16	RIS CHIP 300M 1/18Y 5S RIS CHIP 8.200M 1/18Y 5S RIS CHIP 1000M 1/18Y 5S RIS CHIP 8.200M 1/18Y 5S RIS CHIP 1000M 1/18Y 5S	
CE18 CE19 CE20	150-0488 150-0047 150-0047	CAP E 1000F 10V 2/3K 105A100N CAP E 1000F 10V U-TYPE CAP E 1000F 10V U-TYPE	RE1 RE2 RE3	476-1331-3-16 476-1331-3-16 476-1472-3-16 476-1130-3-18	RES CHIP 330 DW 1/16H SK RES CHIP 330 DW 1/16H SK RES CHIP 4,700W 1/16H SK	
DF1 DB3	270-5086 209-5036	COMON FILTER CHEMPOSTT FORE CONNESSER 64P	824 825	475-1120-J-15 475-1222-J-15	NES CHIP TO DAY 1/10% SK NES CHIP 2, 2020W 1/10% SK	
DK3	309-5083 309-5083	EDGE CONNECTOR HAP PSNALDEK-TH LOSE CONNECTOR HAP	105 107 108	475-1750-3-15 475-1750-3-15 475-1750-3-16	RES ONLY 75 ON 1/104 SX RES ONLY 75 ON 1/104 SX RES ONLY 75 ON 1/104 SX	
DIS DIS	209-5076 209-5076	FFC DNI 40P SDP FFC DNI 40P SDP	120	475-1750-J-15 475-1750-J-15	RES CRIP 75 ON 1/10X 5X RES CRIP 75 ON 1/10X 5X	
DIE DIE	212-5364 212-5364-01	MINI DIN COM 9F TC\$7913-43 MINI DIN COM 9F/C NO-68200-93	RS1 RS2 RS3	475-1750-J-16 475-1330-J-16	RES CNIP 75 DW 1/19N SX RES CNIP 33 DW 1/19N SX RES CNIP 33 DW 1/19N SX	
T30 T30	212-5384 212-5384-01	MINI DIN COM 9F TCS7913-43 MINI DIN COM 9F/C NO-58000-60	734 105	475-1530-J-15 475-1330-J-16 475-1161-J-15	RES ONLY 33 ONN 1/184 55 RES ONLY 160 ONN 1/164 55	
DIS DIS	212-5353 212-5353-01	CONN BC JACK EIAJB NECEROD CONN BC JACK EIAJB NECEROD	R36 R37 R38	476-1161-J-16 476-1161-J-16 807 USED	HES CHIP 160 DW 1/164 SX HES CAIP 160 DW 1/164 SX HET LISTO	
F810 F811 F812 F813	476-1000-J-15 476-1000-J-15 476-1000-J-15 476-1000-J-15	RES CHIP O DIN 1/19H RES CHIP O DIN 1/19H RES CHIP O DIN 1/19H RES CHIP O DIN 1/19H	749 749	675-1503-3-16 675-1503-3-16 675-1561-3-16	RES CHIP 300HI 1/18H SK RES CHIP 450 DIN 1/18H SK RES CHIP 560 DIN 1/18H SK	(A
F814 F815	476-1000-J-16 476-1000-J-16	RES CHIP O ON 1/184 RES CHIP O ON 1/189	ne:	S-127-11	RES DHIP 1, 2894K 1,719K SX RES DHIP 680 GW 1,719K SX	(B
F815 F817	476-1600-J-15 476-1000-J-15	RES CHIP 0 OWN 1/16W RES CHIP 0 OWN 1/16W	R42 R42	476-1102-J-16 NOT 1550	PES CHIP TROMN 1/19N SX NOT MISSO	DB GA
13	180-5059 180-5158	PEAKING COIL 120K LALES PEAKING COIL 120K ELEPK120GA	RAS RAS	475-1102-J-16 807-8550	RES CHIP TROWN 1/18N SX HET HESES	(A)
4	180-5053 180-5147 180-5159	PEAKING COIL 125H LALED PEAKING COIL 105H LALED PEAKING COIL 105H ELEPKIDOU	(A) Nas (A) Nas (A) Nas	475-1750-J-16 475-1000-J-16 807 (850	RES CHIP 75 DW 1/18X SX RES CHIP 0 DW 1/18X	.,
15 15	180-5350 180-5151 180-5157	PEARING COIL TODAY CONA PEARING COIL SCION EACES PEARING COIL TOOM ELEPTIONS	00 M2 NB	475-1101-J-16 807 USED	RES CHIP 100 ONN 1/184 SX RET BSED	
LS LS	180-5180	PEAKING COIL SOUN ELEPHODOGO. PEAKING COIL 120M LALDS	(A) Mg 150 150	475-1103-J-16 475-0813-J-11 475-1561-J-16	RES DHIP 1000HN 1/15X 5X RES DHIP 0 120HN 1X 5X RES DHIP 580 0HN 1/15X 5X	
	DATPAL DB					_

Circuit No.	Parts No	Description		No.	Parts No.	Description
752 753	476-8221-J-01 476-1303-6-16	RES CHIP 220 DN 19 5% RES CHIP 1000N 1/109 25		9-4-	1. USA,CAN	ADA
PELS RE4 RE5 RS8	476-1332-6-16 476-1332-6-16 476-1103-3-18 476-1472-3-18	MS CHIP 3 3/20M 1/109/25 MS CHIP 10/20M 1/109/95 MS CHIP 4,700/M 1/109/98		1	400-5135A 400-5135A-01 400-5135A-02	AC ADAPTOR AC120V/DC1DV D. BSA AC ADAPTOR AC120V/DC1DV D. BSA AC ADAPTOR AC120V/DC1DV D. BSA
957 P58 P58 P60 P60	475-1102-J-15 475-1103-J-16 475-1202-J-15 475-1163-J-15	RES CHIP 1000M 1/19F SS RES CHIP 1000M 1/19F SS RES CHIP 200M 1/19F SS RES CHIP 1900M 1/19F SS		24100	253-5625 253-5425 253-5425 603-6023 603-6412	MCC HOLDER MAPS FRONT CONNECTOR MAPS ROAR CONNECTOR MAPS WIDDO CARLE MCC MOND W/CORE A/V CARLE MC/MOND W/CORE A/V CARLE MY/OF W/CORE
CS4 CS5 CS6	151-0604 151-0604 151-0603	CAP CER CP 3300FF SW BE1608 CAP CER CP 3300FF SW BE1608 CAP CER CP 650FF SW BE1608		,	600-6411	A/V CHILE SP/SP N/CORE
CS7 CS8	151-0413 151-0409	CAP CER OF BREAF SON BY 1808 CAP CER OF 1000PF SON BY 1808		8 8	671-5440-03 671-5440-02	BOSEPHOX WARS USA OF BACKCOTHSTAN NAT BOSEPHOX WARS USA OF BACKC
CB3 CB3 CB3	151-5413 151-8405 151-6413	CAP CER OF 2200FF 50V 631608 CAP CER OF 1000FF 50V 8X1608 CAP CER OF 7200FF 50V 631608		9	671-5959-63 671-5959-03	SCHEPNEY WAS USA FM BACKSTAN BAC BOXEPNEY WAS USA FM BACKS
C83	151-5409 151-5405	CAP CER OF 100CPF SOV BX1808 CAP CER OF 0 1UF 16V 2F1808		10 10	671-5511-67 671-5611-83	WA CTH MARS USA 84000 WA CTH WARS LISA 84000/01/STAR WARS)
CS4 CS5 CS6 CS7 CS8	151-8405 151-8405 151-8405 151-6405 151-6405	OF CR CF C 11F 10V 271636 OF CR CF C 11F 10V 271636 OF CR CF CF C 11F 10V 271636 OF CR CF C 11F 10V 271638 OF CR CF C 11F 10V 271638		11 12 13 14 15	673-5814 673-5726 508-4215 508-4277 508-4290	MANUAL HAND GENESIS SEX 45A MESINESS METLY MANU, MANU USA POLY BAG 250×350×1.05 EDF 6 POLY BAG 250×350×1.05 EDF 6 POLY BAG 250×350×1.05 EDF 6 POLY BAG 250×350×1.05 EDF 6
C83	151-0405	CUP CER CP D. TUF 16V 2F1606		15	620,6777	PERSPERSION CATALON SPIESS STA
C70 C70	151-8432 151-8613	CAP CER OF 4795 SIN CHISSE CAP CER OP GERF ZSK CHISSE		17 15 19	504-4354 670-6662	ASSY MARS DOTEMBER MIT POLY BAS 10+193+Q OF INFOR SHEET EXTENSION BNIT
C71 C72 C73	151-5430 151-5003-01 151-5482	CAP CER CP 10PH 50Y DESCE CAP CER TRUMBER 10PF CAP CER CP 82PF 50Y 0H808		9-4-1	2. PAL	
E74 E74	151-9436 151-9619	CAP CER OF 15PF SOV JOH SOS CAP CER OF 16PF SOV OR 606	(A) (B)	1	400-5358 400-6259 400-6211	AC HOAP, 200Y 5092/10VDC 0 85A(F) HC HOAP, 230Y 5092/10VDC 0 85A(A 8 D. AC HOAP, 260Y/YCSY 0 85A (G.E)
DS DS	151-0402 151-0611	CAP CER OF ATTY SEV CHISCO CAP CER OF SEPT SEV CHISCO	8	2	610-5473	
C76 C77	476-1000-J-15 151-0807	RES CHIP O DAN 1/19R CAP COR CP G DATUF 19V BESIGNS		2 2	610-5473-01 610-5473-02 610-5463	F
C76 C76	151-0482 151-0620	OUP CER OP 829°F SSV CHISCOS OUP CUR OP 100°F SSV CHISCOS	(A)	3 4 5	253-6923 250-5408	MED HILDER MARS FRONT CONNECTOR MARS
C79 C80 C51	151-0607 151-0405 151-0405	CAP CSR CP 0.5478F 18V 8X1806 CAP CSR CP 0.19F 18V 271828 CAP CSR CP 0.18F 18V 271828		6 7	290-5409 800-6412 800-6411	REAR CONNECTOR MARS ANY CABLE BY/SP W/CORE (C. O. E. F.) ANY CABLE SP/SP W/CORE
CB2	151-0405 151-0405	OF CE OF B. 19 16V 271608		i	671-5438-09 671-5635-09 671-5630-05	BBF SET MD 32X SHE 84234 OF (A) BBF SET MD 32X SHE 84234 PM (A) MA CTH MD 32X ASIA 84234 (A)
096 096 097 097	151-0405 151-0812 151-0405 151-0405 151-0405	CAP CER OP 0.11F 10V 2F1608 CAP CER OP 470FF 55V CRISCO CAP CER OP 0.16F 10V 2F1606 CAP CER OP 0.16F 10V 2F1606 CAP CER OP 0.16F 10V 2F1608		8 8	571-5435-08 571-5635-08 571-5630-05	TRP SET NO 321 MEL 84204 OF (B) TRP SET NO 321 MEL 84204 PM (B) NA CÎN NO 321 X514 54254 (B)
C88 C80 C91	151-9405 151-9405	CAP CER CP 6 10F 16V 2F1608		1	671-5488-02 671-5688-02 671-5688-02	MP SET MD 32X M3. 84233 OP IC. E.F.C MP SET MD 32X M3. 84263 PM IC. E.F.C MI CTN MD 32X M3. 84263 PM IC. E.F.C
C92	151-0405 151-0405	OF OR O' 6 10F 10V 2F1808 OF OR O' 6 10F 10V 2F1808 OF OR O' 6 10F 10V 2F1808		8 8 9	671-5438-01 671-5658-01 671-5610-01	SEP SET MD 32X MEL SAQST DP (C. S. E. P. SEP SET MD 32X MEL SAQST PN (C. S. E. P. M. CHI MD 32X MEL SAQST PL (C. S. E. P.
CSA CSS	NST 151-0020	OUP CEN OF 100PF SEV CHISSE		10 11 12	672-2147 670-6863-63 670-8086	MINERI, MATO NO 32X MEJ. MEMBERSHIP CARD SMEDIN CO. (A) INFOR SMEET CONTEXTS 32X MASSA (A, E)
				12 15	570-6066 670-6067	MATERIALLY CHIED GO: NO 35X MIS(C) MATERIALLY CHIED GO: NO 35X MIS(C)
				14	\$70-SB15	CHARMITTEE CARD SOE NO 32X (0.F.G)
				15	594-4216 194-4333	POLY BAS 250×320×0.05 EXP 6 POLY BAS 250×310×0.05 EXP 6

He	Perts No.	Discription	No.	Parts No	Description
15 15	50a-4217 50a-4245	POLY BAG 200×300×0, 05 EUP 8 POLY BAG 200×200×0 GG EUP 6			
17	594-4282	POLY BAS 55+185+0 03			
18 18	670-6561 670-6667	METER SHEET SET UP 32X MLL [A, 0, 0, 1] INFOR SHEET SET UP 32X SQ2 (C, 0)			
13	670-6588	LABEL CASTION WARS MIL. (C. C. E. F.)			
[Note]	(A) - MONTHER (C) - AISTRIL (E) MIN 2EA (E) SSE	N EUROPE (A) GAST EUROPE IA (B) GOMAN, SEE LANG (F) (IK			
9-4-	3. ASIA PAL				
2346	490-5299 253-6923 500-5187 638-5412 806-6411	AC ADR? 250V SDR2/10VDC 0 86A MCD BCLDER MAX; V1850 CHLLE MCD JAF MOND 2N [A] A/V CABLE 8P/8P N/COME [A] A/V CABLE 8P/8P N/COME			
ε	210-5030	COMPISION PLUE (I-S (C)			
7 8 9	671-5658-03 671-5658-03 671-5610-03	667 SET NO SEX AGIA BACKE OF (A) 687 SET NO ZEX AGIA BACKE PW (A) NA C'IN NO SEX AGIA BACKE (A)			
7 8 9	671-5438-05 671-5658-05 671-5610-05	BAP SET MG 32X ASIA 84254 CP (8) BAP SET MG 32X ASIA 84254 PM (8) MA CTH MG 32X ASIA 84254 PM (8)			
ī	671-6438-10 671-5658-10	00 P SET NO 2011 S. A SA20A OF (C) 00 P SET NO 2011 S. A SA20A OF (C)			
Į.	671-5438-11 671-5658-11	58P SET NO 32X XSA 84254 CP (3) 58P SET NO 32X XSA 84254 PN (8)			
10 11 12	672-2161 504-6181 504-4185	NAMEAL HARD NO 32% AGIN POLY BAG 280×250×0 POLY BAG 160×240×0, 05			
Note3	(A) HENC CON (B) SINGAPON (C) GOUTH AF (D) SHOOT AR	S. STRITTERST ASTR. E. HOTELS COME. HICK.			
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